

CLAIMS

1. A piezoelectric electroacoustic transducer comprising:

a quadrilateral piezoelectric diaphragm that is bent for vibration in the thickness direction by applying an alternating signal to lead electrodes thereof;

a casing comprising a supporting portion disposed on an inner circumference of the casing, the supporting portion supports the outer circumference of said piezoelectric diaphragm;

first and second terminals that are fixed to said casing so that inner connecting portions are exposed on said inner circumference of the casing; and

conductive adhesives that are applied and are hardened between the lead electrodes of the piezoelectric diaphragm and the inner connecting portions of the first and second terminals, thereby the conductive adhesives electrically connect the lead electrodes to the inner connecting portions of the first and second terminals,

wherein one of said conductive adhesives is applied and is hardened between the inner connecting portion of said first terminal and one of the lead electrodes near one corner of said piezoelectric diaphragm, and

the other conductive adhesive is applied and is hardened between the inner connecting portion of said second terminal and the other lead electrode near another corner of said piezoelectric diaphragm adjacent to the one corner of said piezoelectric diaphragm.

2. A piezoelectric electroacoustic transducer according to Claim 1, wherein the coating position of one of said conductive adhesive faces the coating position of the other conductive adhesive, acrossing said piezoelectric diaphragm.

3. A piezoelectric electroacoustic transducer according to Claim 1, wherein the coating position of one of said conductive adhesives and the coating position of the other conductive adhesive are on one side of said piezoelectric diaphragm and near the corners at both ends of the one side.

4. A piezoelectric electroacoustic transducer according to any one of Claims 1 to 3, wherein said piezoelectric diaphragm is formed by adhering a quadrilateral piezoelectric member to a quadrilateral metallic plate, one lead electrode is an electrode disposed on the surface of the piezoelectric member, and the other lead electrode is the metallic plate.

5. A piezoelectric electroacoustic transducer according to any one of Claims 1 to 3, wherein said piezoelectric diaphragm is formed by laminating a plurality of piezoelectric ceramics layers, sandwiching an inner electrode, thereby said piezoelectric diaphragm comprises a laminating layer with principle-surface electrodes on the principle surfaces of the front and back sides, and

one of the lead electrodes is connected to the inner electrode and the other lead electrode is connected to the principle-surface electrodes.

6. A piezoelectric electroacoustic transducer according to any one of Claims 1 to 5, wherein an elastic adhesive is applied between the piezoelectric diaphragm and the terminal, and

the conductive adhesive is applied on the elastic adhesive.